Water Resources Management **5** (1991)

Contents of Volume 5

Volume 5 No. 1 1991

Review Article:

VUJICA YEVJEVICH / Tendencies in Hydrology Research and Its Applications for the 21st Century 1

LOTTA ANDERSSON and RICHARD J. HARDING / Soil-Moisture Deficit Simulations with Models of Varying Complexity for Forest and Grassland Sites in Sweden and the U.K. 25

H. HABAÏEB, P. A. TROCH, and F. P. DE TROCH / A Coupled Rainfall-Runoff and Runoff-Routing Model for Adaptive Real-Time Flood Forecasting 47

Technical Communication:

HASSAN ALI GHAYOOR / Prediction of Peak Runoff from Rainfall in a Temperate Area 63

Research Note:

G. TSAKIRIS / Micro-Catchment Water Harvesting in Semi-Arid Regions: Basic Design Considerations 85

ECOWARM: News and Information 93

Volume 5 No. 2 1991

J. FEYEN and F. LIU / Automation of the Design of Agricultural Water Management Projects 95

MARIA GINI and RAFAEL L. BRAS / Simulation of Water Allocation and Salt Movement in the Root Zone 121

WYTZE SCHUURMANS and MEHDI MAHERANI / Operational Performance of Canal Control Systems 149

Technical Communication:

ZEKAI ŞEN and MOHAMMAD S. AL-SOMAYIEN / Some Simple Management Criteria for Confined Saq Aquifer in Tabuk Region, Saudi Arabia 161

ECOWARM: News and Information 181

Volume 5 Nos. 3 & 4 1991

EUROPEAN CONFERENCE ON ADVANCES IN WATER RESOURCES TECHNOLOGY

Athens, 20–23 March 1991

SELECTED PAPERS FROM THE CONFERENCE

P. W. JOWITT, D. C. HOWARTH, and S. WALKER / Development of a Knowledge-Based System for Drought Management 187

G. L. VANDEWIELE, CHONG-YU XU, and W. HUYBRECHTS / Regionalisation of Physically-Based Water Balance Models in Belgium. Application to Ungauged Catchments 199

M. BORGA, A. CAPOVILLA, F. CAZORZI, and S. FATTORELLI / Development and Application of a Real-Time Flood Forecasting System in the Veneto Region of Italy 209

J. MOHAN REDDY / Design of a Combined Observer-Controller for Irrigation Canals 217

S. GABRIELE, P. VERSACE, and E. VOCI / Monitoring Systems and Real-Time Data Analysis 233

GEORGE J. MERGOS / Sustainability Issues and Technology Choice in Irrigation Investment 243

G. PAPAIOANNOU, A. LOUISAKIS, and P. KERKIDES / Evapotranspiration Measurements over a Soybean Field 251

L. LI, M. CARGNELUTTI, and C. MOSCA / Dam-Break Flood Forecasting in Piemonte Region, Northwest Italy 261

J. A. G. VAN GILS and D. ARGIROPOULOS / Axios River Basin Water Quality Management 271

WOLFRAM TAUER, DIETER PRINZ, and THOMAS VÖGTLE / The Potential of Runoff-Farming in the Sahel Region: Developing a Methodology to Identify Suitable Areas 281

JOHN G. SAKKAS and CONSTANTINE V. BELLOS / Mathematical Model for Design of Border Irrigation 289

C. JACOVIDES, P. KERKIDES, and G. PAPAIOANNOU / Evapotranspiration and Sensible Heat Flux Estimation above Grass: Comparison of Methods and Correlation of Several Attributes to Routinely Measured Data 305

C. VENETIS / Ground Water Replenishment and Flood Retention 321

ECOWARM: News and Information 329

Key word Index to Volume 5 331